

Recent IBM Patents

The following patents were recently issued by the countries in which the inventions were made.

France		
4,277,701	R. Hornung	Semiconductor Integrated Injection Logic Structure Controlled by the Injector
Germany		
1,103,098	G. Trippel	Magnetic Record Carrier
1,103,366	D. L. Bazlen, D. W. Bock, R. Berger, H. Chilinski, A. Blum, H. R. Geng, J. Hajdu, U. Wille, F. Irro, and S. E. Neuber	Arrangement for Micro Instruction Control
1,103,517	W. Hasler, S. Padmanabhan, and K. Staudenmaier	Type Belt Printer
1,104,200	D. J. Bahr, W. G. Spruth, and K. H. Burckardt	Print Head Electrode for Metal Paper Printer
1,587,109	D. L. Bazlen, D. W. Bock, R. Berger, H. Chilinski, A. Blum, H. R. Geng, J. Hajdu, U. Wille, F. Irro, and S. E. Neuber	Data Processing Apparatus
2,460,146	K. Heuber, R. Remshardt, W. Klein, S. K. Weidmann, and K. Nagmann	Sense Circuit for Memory Storage System
2,659,662	H. J. Heinrich and D. Schuett	Priority Interrupt Apparatus Employing a Plural Stage Shift Register Having Interrupt Mechanisms Coupled to the Different Stages Thereof for Segregating Interrupt Requests According to Priority Levels
2,855,866	K. Heuber and S. K. Wiedmann	Method and Circuit Arrangement for Controlling an Integrated Semiconductor Memory
4,272,200	W. Hehl	Horn Loaded Piezoelectric Matrix Printer Drive Method and Apparatus
4,276,487	L. Arzubi	FET Driver Circuit with Short Switching Times
4,278,357	A. Matla	Apparatus for Controlling Impression in a Daisy Wheel Printer
4,280,198	K. Heuber	Method and Circuit Arrangement for Controlling an Integrated Semiconductor Memory
Switzerland		
2,357,230	H. J. Scheel	Apparatus for the Epitaxial Growth of Semiconductors
United Kingdom		
1,103,330	S. C. Kerigan	Keyboard Apparatus
1,104,730	B. R. Sowter	Character Graphics Colour Display System
4,274,139	S. C. Hodgkinson and P. Homan	Digital Communication Network Having Improved Data Processing Systems
4,278,512	D. J. Barclay and J. L. Vigar	Low Concentration Trivalent Chromium Electroplating Deposition of Light Coloured Chromium in Trivalent Chromium
4,279,520	J. S. Heath	Print Mechanism for Wire Printer
4,280,767	J. S. Heath	Printing Apparatus
4,789,973	M. A. Hughes	Video Display Terminal with Partitioned Screen
United States		
4,268,952	F. H. Gaensslen and E. A. Spiller	Method for Fabricating Self-Aligned High Resolution Non Planar Devices Employing Low Resolution Registration
4,269,067	E. E. Tynan, R. W. Dreyfus, and R. J. von Gutfeld	Method and Apparatus for Focusing Elastic Waves Converted from Thermal Energy
4,269,117	H. C. Lee, D. H. Rickenbach, and J. L. Zable	Electro-Magnetic Print Hammer
4,269,631	N. G. Anantha and G. R. Srinivasan	Selective Epitaxy Method Using Laser Annealing for Making Filamentary Transistors
4,269,892	M. D. Shattuck and W. J. Weiche	Polyester Ribbon for Non-Impact Printing
4,269,968	J. Duran, L. Missel, and T. O. Montelbano	Synthesis of Polyamic Acid

4,270,092	W. A. Christopherson	Current Controlling Circuitry for Logical Circuit Reference Electric Level Circuitry
4,270,124	C. R. Bringol	Alphanumeric CRT Display System with Unitary Character Formation and Refresh
4,270,189	M. E. Brossard, D. A. Heuer, and P. T. Wu	Read Only Memory Circuit
4,270,745	H. R. Woodard	Multiple Stack Roll-Wave Sheet Separator Apparatus
4,270,868	D. B. Morgan, R. F. Pan, P. A. Quinn, Jr., and G. S. Westerman	Digital Pulse-Width Modulated Printer Escapement Control System
4,270,999	J. K. Hassan and J. A. Paivanas	Method and Apparatus for Gas Feed Control in a Dry Etching Process
4,271,232	N. D. Heiman, R. L. White, R. I. Potter, and P. A. Albert	Amorphous Magnetic Film
4,271,468	N. T. Christensen, W. C. Van Loo, R. H. Werner, J. A. Wetzel, and C. Zeitler, Jr.	Multiprocessor Mechanism for Handling Channel Interrupts
4,271,476	J. B. Lotspiech	Method and Apparatus for Rotating the Scan Format of Digital Images
4,271,479	H. Cheselka, W. F. Nemecek, and D. A. Stockwell	Display Terminal with Modularly Attachable Features
4,271,485	G. S. Almasi, W. E. Bogholtz, and G. E. Keefe	Bubble Domain Storage Using Improved Transfer Switch
4,271,782	G. Bate and L. P. Dunn	Apparatus for Disorienting Magnetic Particles
4,272,068	S. P. Garrison and E. L. B. Kroeker	Roll-Wave Sheet Separator Structure
4,272,181	R. C. Treseder	Electrophotographic Printer with Duplex Printed Sheet Output
4,272,187	I. P. Birdsall, P. J. Bradmon, D. L. Buddington, V. H. Garcia, and D. S. Nelson	Automatic Alignment of Optical Elements in an Electrophotographic Apparatus
4,272,200	W. H. Hehl	Horn Loaded Piezoelectric Matrix Printer Drive Method and Apparatus
4,272,201	D. J. Steger	Ribbon Shaper for Typewriter Cartridge
4,272,204	P. A. Quinn, Jr. and W. J. Wipke	Automatic Margin Determining Apparatus for a Scanned Sheet of Paper
4,272,205	J. J. Bisczat and C. D. Bleau	Signal Controlled Indexing Rate Shifter for a Typewriter
4,272,348	D. E. Cox, S. M. Kane, and J. V. Powers	Bubble Device Fabrication
4,272,355	T. N. Kennedy	Process of Bonding Sputtering Targets to Target Electrodes
4,272,500	C. L. Eggerding, F. Gonzales, Jr., and J. B. Niklewski	Process for Forming Mullite
4,272,561	L. B. Rothman, P. A. Totta, and J. F. White	Hybrid Process for SBD Metallurgies
4,272,599	Y. Moradzadeh	Ink Development of Electrostatic Images
4,272,722	A. S. Cammarano, G. DiGiacomo, and S. S. Drofitz, Jr.	Determination of Electric Current Flow Patterns
4,272,813	D. M. Howell, R. A. Kolpek, and W. M. Schuller	Communicating Typewriter and Dictation System Utilizing Analog Recording and Transmission Techniques
4,273,040	R. A. Sebrosky and W. D. Thorne	Segmented Drum Bar Helix Printer
4,273,041	R. D. Bolcavage, A. J. Ferraro, and A. E. Fleek	Belt Printer Control Architecture
4,273,439	H. R. Markham and R. D. Shepherd	Document Feeder System Having a Suspending/Commencing Mode with a Judgment Decision Capability
4,273,456	J. J. Bisczat, R. R. Lisk, W. R. McCray, and J. L. Sizemore	Paper Insertion Apparatus for a Typewriter
4,273,906	J. Economy and M. A. Flanders	Polymerizable Acetylenic Oligomers
4,274,015	S. M. Faris	Self-Resetting Josephson Digital Current Amplifier
4,274,017	E. L. Carter and E. J. Nosowicz	Cascode Polarity Hold Latch Having Integrated Set/Reset Capability
4,274,104	F. F. Fang and R. Y. Hung	Electrooptical Integrated Circuit Communication
4,274,105	B. L. Crowder, F. H. Gaensslen, and R. C. Jaeger	MOSFET Substrate Sensitivity Control
4,274,124	I. Feinberg and L. L. Wu	Thick Film Capacitor Having Very Low Internal Inductance
4,274,139	S. D. Hodgkinson and P. Homan	Digital Telecommunication Network Having Improved Data Processing Systems
4,274,576	R. S. Shariff	Cryogenic Chip Removal Technique
4,274,752	D. L. Huber, T. M. Paulson, and J. M. Williams	Keyboard Multiple Switch Assembly
4,274,891	V. J. Silvestri, D. D. Tang, and S. K. Wiedmann	Method of Fabricating Buried Injector Memory Cell Formed from Vertical Complementary Bipolar Transistor Circuits Utilizing Mono-Poly Deposition
4,274,909	K. Venkataraman and B. H. Yun	Method for Forming Ultra Fine Deep Dielectric Isolation
4,275,107	E. A. Bartkus and R. L. Price	Polyester Stabilization Process and Product
4,275,288	G. Makosch, F. Schedewie, A. Schmackpfeffer, and J. Ziller	Apparatus for Machining Material
4,275,336	V. Marrello, A. Onton, and W. Ruhle	Method of Improving the Memory Effect and Brightness of an Alternating Current Excited Thin Film Electroluminescent Device
4,275,339	M. J. Burke and D. W. Collins	Bifilar Brushless DC Motor

4,275,395	A. G. Dewey and G. T. Sincerbox	Interactive Projection Display System
4,275,409	P.-C. Li	Phosphorus-Nitrogen-Oxygen Composition and Method for Making Such Composition and Applications of the Same
4,275,440	R. L. Adams, Jr., C. H. Grant, and K. W. Stevens	I/O Interrupt Sequencing for Real Time and Burst Mode Devices
4,275,653	R. D. Bolcavage, A. E. Fleek, and M. P. Marcus	Line Printer System and Method of Operation with Microprocessor Control
4,275,960	M. A. Habegger and R. B. Hooker III	System for Enhanced Light Uniformity in a Document Scanning System
4,275,968	J. W. Irwin	System for Controlling and Sequencing a Printer
4,276,095	K. E. Beilstein, Jr. and H. N. Kotecha	Method of Making a MOSFET Device with Reduced Sensitivity of Threshold Voltage to Source to Substrate Voltage Variations
4,276,137	H. J. Hovel and J. M. Woodall	Control of Surface Recombination Loss in Solar Cells
4,276,186	P. Bakos, G. A. Bendz, R. E. Darrow, and D. L. Rivenburgh	Cleaning Composition and Use Thereof
4,276,487	L. M. Arzubi, R. Clemen, and J. Gschwendtner	FET Driver Circuit with Short Switching Times
4,276,555	A. W. Vinal	Controlled Avalanche Voltage Transistor and Magnetic Sensor
4,276,574	H. J. Baasch and F. S. Luecke	Read/Write and Tunnel Erase Magnetic Head Assembly
4,276,595	D. A. Brereton and B. F. Stansbury	Microinstruction Storage Units Employing Partial Address Generators
4,276,613	B. R. Brown	Close-Packed Bubble Propagation Device
4,277,059	G. R. Dunning	Sheet Feeder for Typewriters
4,277,188	R. F. McDaniel, M. Prewarski, and L. D. Ramey	Direct Keyboard Controlled Rack Shift Device for a Single Element Typewriter
4,277,191	G. W. Davis and A. E. Fleek	Printer System Having Microprocessor Control
4,277,699	D. J. Brown, R. G. Walther, T. W. Williams, and M. D. Wigglesworth	Latch Circuit Operable as a D-Type Edge Trigger
4,277,701	R. M. Hornung and G. M. Lebesnerais	Semiconductor Integrated Injection Logic Structure Controlled by the Injector
4,277,790	H. P. Heibin, R. G. Millington, J. M. Salvatore, D. J. Scott, and M. L. Sendelweck	Field Replaceable Modules for Ink Jet Head Assembly
4,277,816	R. M. Dunn, M. D. Schulman, and N. Timko, Jr.	Electronic Circuit Module Cooling
4,277,826	R. W. Collins, R. L. Hoffman, L. W. Loen, G. R. Mitchell, and F. G. Soltis	Synchronizing Mechanism for Page Replacement Control
4,277,837	P. E. Stuckert	Personal Portable Terminal for Financial Transactions
4,278,019	J. H. Meier	All-Points Addressable Dot Printer
4,278,020	A. W. Oaten	Print Wire Actuator Block Assembly for Printers
4,278,342	J. C. Andrew and R. R. Tanner	Xerographic Charging
4,278,356	A. B. Habich and R. E. Hunt	Daisy Wheel Printer Carrier
4,278,357	A. Matla and H. D. Matthaei	Apparatus for Controlling Impression in a Daisy Wheel Printer
4,278,493	S. I. Petvai	Method for Cleaning Surfaces by Ion Milling
4,278,512	D. J. Barclay and J. M. L. Vigar	Low Concentration Trivalent Chromium Electroplating Solution and Process
4,278,867	S.-I. Tan	System for Chip Joining by Short Wavelength Radiation
4,278,902	M. M. Loy and P. P. Sorokin	Tunable 16-Micron Coherent Source Including Parahydrogen Raman Transition and Method
4,278,909	A. O. Piston and T. A. Sherk	Modified Conductor Array for Plasma Display Panel
4,278,973	M. A. Hughes, J. S. M. Johnson, and G. C. E. Winn	Video Display Terminal with Partitioned Screen
4,279,016	J. C. Leininger, F. R. Bliss, and P. T. Fairchild	Instruction Pre-Fetch Microprocessor Interrupt System
4,279,023	R. J. Houghton	Sense Latch
4,279,199	A. D. Blanco, W. W. Boynton, and C. J. Weber	Print Head Image Generator for Printer Subsystem
4,279,504	L. C. Brown, U. J. Fitts, and D. R. Polakowski	Copier and Multifunction Paper Cassette
4,279,520	J. S. Heath	Print Mechanism for Wire Printer
4,279,521	D. A. Kightlinger	Wire Matrix Print Head
4,279,523	T. W. Ringle	Power Recovery Apparatus for an Electric Typewriter
4,279,707	N. C. Anderson and C. R. Grover, Jr.	Electroplating of Nickel-Iron Alloys for Uniformity of Nickel/Iron Ratio Using a Low Density Plating Current
4,280,143	I. D. Judd	Method and Means for Scale-Changing an Array of Boolean Coded Points